

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 503958/142	· FOR FURTHER ACTION		Transmittal of International Search Report 0) as well as, where applicable, item 5 below.
International application No. PCT/NZ03/00111	International filing date ((day/month/year)	(Earliest) Priority Date (day/month/year) 4 June 2002
Applicant	4 Julie 2003		4 Julie 2002
AUCKLAND UNISERVICES	S LIMITED et al		
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This international search report has been pre Article 18. A copy is being transmitted to th		earching Authority an	d is transmitted to the applicant according to
This international search report consists of a	total of 4 sheets.		
X It is also accompanied by a cor	y of each prior art documen	t cited in this report.	•
1. Basis of the report			
 With regard to the language, the which it was filed, unless other 			of the international application in the language in
the international search w (Rule 23.1(b)).	as carried out on the basis o	f a translation of the in	nternational application furnished to this Authority
carried out on the basis of the s	equence listing:		national application, the international search was
contained in the internation	onal application in written for	orm.	
filed together with the int	ernational application in con	nputer readable form.	•
furnished subsequently to	this Authority in written for	m.	·
furnished subsequently to	this Authority in computer	readable form.	
the statement that the subsapplication as filed has be	sequently furnished written s en furnished.	sequence listing does r	not go beyond the disclosure in the international
		er readable form is ide	entical to the written sequence listing has been
2. Certain claims were found uns	searchable (See Box I).		
3. Unity of invention is lacking (S	See Box II).		:
4. With regard to the title,	the text is approved as sub-	mitted by the applican	t.
	the text has been established	ed by this Authority to	read as follows:
5. With regard to the abstract, X	the text is approved as sub-	mitted by the applican	t
		one month from the da	8.2(b), by this Authority as it appears in Box III. ate of mailing of this international search report,
6. The figure of the drawings to be publi		-	_
· · .	as suggested by the applica	nt.	X None of the figures
\Box	because the applicant failed	l to suggest a figure	
·	because this figure better ch	naracterizes the invent	ion



International application No.

PCT/NZ03/00111

CLASSIFICATION OF SUBJECT MATTER Int. Cl. 7: C07K19/00, C07K14/00, C07K 014/315, C07K 016/12; A61K 035/74, A61K39/00, A61K 039/09, A61K39/39; C12N 001/20, C12N15/31; C07H 019/00; C12Q 001/68 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Angis blast, dgene blast on SEQ ID No 1; keyword: smez DOCUMENTS CONSIDERED TO BE RELEVANT C. Relevant to Citation of document, with indication, where appropriate, of the relevant passages Category* claim No. Fraser, J.D. et al: Journal of Immunology, (1 September 2002) 169 (5) 2561-9. "The 1 to 24 Α bacterial superantigen streptococcal mitogenic exotoxin Z is the major immunoactive agent of Streptococcus pyogenes". Proft, T. et al: Journal of Experimental Medicine, (15 May 2000) 191 (10) 1765-76. 1 to 24 Α "The Streptococcal Superantigen SMEZ Exhibits Wide Allelic Variation, Mosaic Structure, and Significant Antigenic Variation". See patent family annex \mathbf{x} Further documents are listed in the continuation of Box C Special categories of cited documents: later document published after the international filing date or priority date "T" document defining the general state of the art and not in conflict with the application but cited to understand the principle which is not considered to be of particular or theory underlying the invention relevance document of particular relevance; the claimed invention cannot be earlier application or patent but published on or "X" "E" considered novel or cannot be considered to involve an inventive step after the international filing date when the document is taken alone document of particular relevance; the claimed invention cannot be document which may throw doubts on priority "L" considered to involve an inventive step when the document is combined claim(s) or which is cited to establish the with one or more other such documents, such combination being obvious to publication date of another citation or other special a person skilled in the art reason (as specified) document member of the same patent family document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 1 1 NOV 2003 12 September 2003 Authorized officer Name and mailing address of the ISA/AU **AUSTRALIAN PATENT OFFICE** PO BOX 200, WODEN ACT 2606, AUSTRALIA D.A. LALLY E-mail address: pct@ipaustralia.gov.au Telephone No: (02) 6283 2533 Facsimile No. (02) 6285 3929



International application No.

PCT/NZ03/00111

C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Arcus, V.L. et al: Journal of Molecular Biology, (26 May 2000) 299 (1) 157-68. "Conservation and Variation in Superantigen Structure and Activity Highlighted by the Three dimensional Structures of Two New Superantigens from Streptococcus pyogenes".	1 to 24
, A	Proft, T. et al: Journal of Experimental Medicine, (4 January 1999) 189 (1) 89-101. "Identification and Characterisation of Novel Superantigens from Streptococcus pyogenes".	1 to 24
Α 、	WO 02/45739 A1 (Auckland Uniservices Limited), 13 June 2002. The whole document.	1 to 24
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International application No.

END OF ANNEX

PCT/NZ03/00111

Information on patent family members

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	t Document Cited in Search Report		Patent Family Member	
wo	02/45739 A1	,		

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ01/00267

A. CLASSIFICATION OF SUBJECT MATTER

Int Cl. 7: A61K 39/00, 39/39; C07K 19/00, 14/00, 14/315; C12N 15/31; A61P 37/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

DOCUMENTS CONSIDERED TO BE RELEVANT

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) medline, wpids, ca, biosis, biotechabs superantigen, fusion, chimeric, t(w)cell

Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Х	WO 98/26747 (TERMAN D. S.), 25 June See abstract; pages 34 and 36	1998	1-6, 10-22, 26-31, 36- 38
Y		·	7, 32
Y	WO 98/24910 (REGENTS OF THE UNIV June 1998 See abstract; Figure 7	ERSITY OF MINNESOTA), 11	7, 32
X	Further documents are listed in the continuat	ion of Box C X See patent fam	ily annex
"A" Documot control of the interior with anoth "O" documor of the interior with anoth "O" documor of the interior of the interior with anoth "O" documor of the interior of th	ment defining the general state of the art which is onsidered to be of particular relevance an application or patent but published on or after applicational filing date ment which may throw doubts on priority claim(s) uich is cited to establish the publication date of eer citation or other special reason (as specified) ment referring to an oral disclosure, use, exhibition are means	later document published after the interpriority date and not in conflict with the understand the principle or theory understand the principle or cannot be considered novel or cannot be considered novel or cannot be considered when the document is the beconsidered to involve an inventive combined with one or more other such combination being obvious to a person document member of the same patent.	the application but cited to lerlying the invention claimed invention cannot sidered to involve an aken alone claimed invention cannot step when the document is a documents, such a skilled in the art family
Date of the actual completion of the international search 4 February 2002		report 1 4 FEB 2002	
Name and mail	ing address of the ISA/AU	Authorized officer	
PO BOX 200, E-mail address	V PATENT OFFICE WODEN ACT 2606, AUSTRALIA pet@ipaustralia.gov.au	DAVID GRIFFITHS	

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INTERNATIONAL SEARCH REPORT

International application No.

C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	PROFT T and FRASER J, "Superantigens: Just Like Peptides Only Different" Journal of Experimental Medicine (1998), vol 187 (6), pages 819-821			
A	US 5,968,514 (JOHNSON et al.), 19 October 1999 See column 5 lines 54-62			
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